

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-167718

(43)Date of publication of application : 14.06.1994

(51)Int. Cl. G02F 1/1347
G02F 1/1335(21)Application number : 04-320720 (71)Applicant : SANYO ELECTRIC CO LTD
TOTTORI SANYO ELECTRIC CO
LTD(22)Date of filing : 30.11.1992 (72)Inventor : NARITA KENICHI
SUZAKI TAKESHI

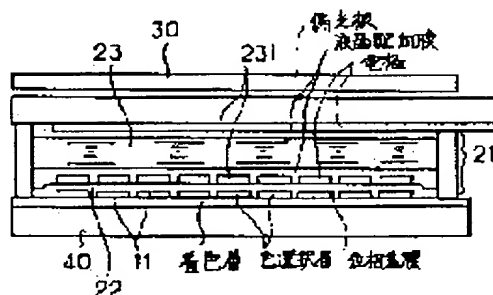
(54) LIQUID CRYSTAL DISPLAY DEVICE

(57)Abstract:

PURPOSE: To provide a liquid crystal display device which is simple in structure, has high efficiency of utilizing light, can make bright display and enables high time sharing driving.

CONSTITUTION: A short-pitch cholesteric liquid crystal layer reflects light in the prescribed rotating direction of a specific wavelength

(prescribed red) and allows the transmission of light in a reverse direction. Color selection layers which reflect the light circularly polarized with a specific wavelength by utilizing the property, double refractive layers which have prescribed retardation at the time of electric field impression and are laminated on these color selection layers and selection layers which allow the selective transmission of the output light of the double refractive layers are laminated. The color selection layers 11 which are disposed on light shielding layers and consist of a cholesteric liquid crystal to reflect the light of the specific wavelength, phase difference films 22 which are laminated on the color selection layers 11 and have prescribed retardation, liquid crystal layers 23 which are laminated on the color selection layers 11 and have means for impressing electric fields and a polarizing plate 30 are laminated.



LEGAL STATUS

[Date of request for examination] 28.01.1999

[Date of sending the examiner's decision of rejection] 13.06.2000

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office